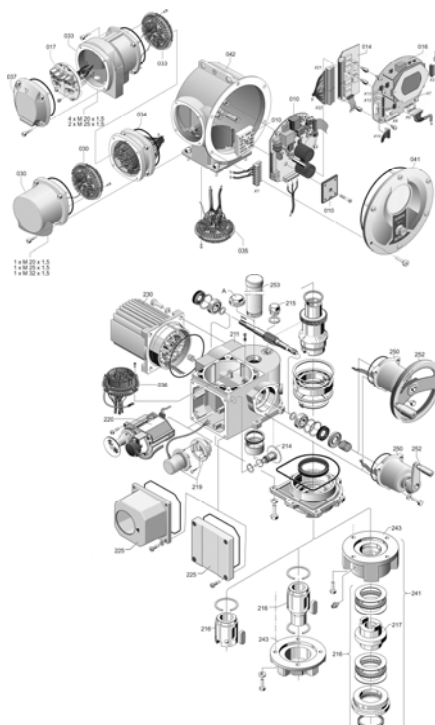


# Recommended spare parts and often used accessories

## Electric Actuators

- Rotary Actuators 2SA7
- Part-turn Actuators 2SG7



## Definition of spare parts

**Recommended spare parts**

Base order No. <sup>1)</sup> (2SY7 + part No.)  part No.	Short description	Explosion views  see attachment ...	2 years / commissioning 8 years		Delivery period [weeks]	Spare part definition + detailed description  Page
Electronics						
...001-.....	Electronics unit	a, b	5	5	4	3-5
...041-.....	Electronics housing cover	a, b	1	1	2	6
Mechanical						
...218-.....	Gasket set for commissioning	all depictions	10	-	2	7
...219-.....	non-intrusive position encoder	c, d	1	1	2	8
...220-.....	Signaling gear	c, d	2	5	2	9
...225-.....	Signaling gear hood	c, d	5	5	2	10
...250-.....	Hand manual	c, d, e	5	5	4	11
...252-.....	Handle	c, d, e	5	5	2	12

**Often used accessories**

Short description	Order No.	Delivery period [weeks]	Detailed description  Page
COM-SIPOS PC parameterization program	<b>2SX7100-3PC02</b>	1	13
Parking socket	<b>2SX7303-0PS01</b>	2	13
Separate mounting	<b>2SX7300-. GA . .</b>	4	14

**Attachments**

(explosion views)

<b>a</b>	Electronics	▪ ECOTRON	- Connections, housings, control electronics	15
<b>b</b>		▪ PROFITRON/HiMod	- Connections, housings, control electronics	16
<b>c</b>	Mechanical	▪ Rotary actuator	- 2SA7 . 1/2/3/4.-	17
<b>d</b>			- 2SA7 . 5/6/7/8.-	18
<b>e</b>		▪ small Part-turn actuator	- 2SG7 . . . -	19

1) Numbers printed in bold are part Nos. of the explosion views!

## Definition of spare parts

## Electronics

## 2SY7001- Electronics unit

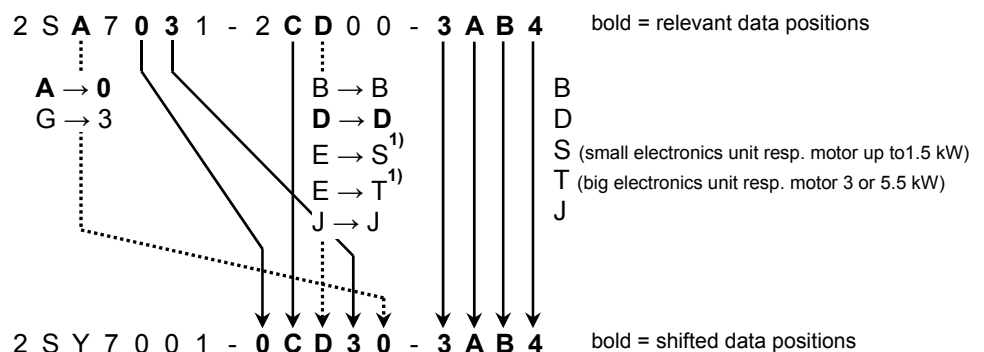
- Version:** Silver-gray coating (similar RAL7037), completely assembled, including mounting parts for mounting to the actuator's gear unit, with mounting instruction.  
Connection openings are covered for transport/stocks.  
(including the parts 010 – 016, 034, 035, 041, 042 and for version with electrical connection „8“ the parts 017, 30, 33 and 37 that are used depending on the version)
- Notes:**
- Electronics units are function-tested and are documented with a separate serial number and order number (2SY7...-) and are specified on a neutral rating plate.  
A wiring diagram is included.
  - Current data such as the number of elapsed hours of the motor cannot be imported from the original electronics unit. Wherever applicable, maintenance intervals must be reparameterized.

## Identical electronics unit:

## Determining spare parts with importing of all actuator-specific data by the supplier.

(Electronics unit can only be used for absolutely identical actuator versions, e.g. rotary actuators with 37-125 Nm and 5-40 rpm.)

Example: supplied type



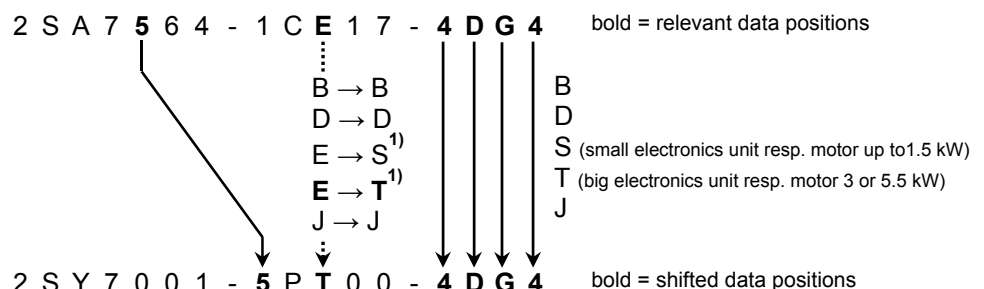
- An identical electronics unit is required if the actuator parameters (COM-SIPOS STE-file) of the old actuator are not available!
- A replacement for a SIPOS 5 electronics unit where the actuator parameters are not available is only possible, if the complete order number of the SIPOS 5 actuator is communicated!

## Actuator-neutral electronics unit:

## Determining spare parts exclusively taking into account the data relevant to the version.

(Electronics unit is largely actuator-neutral. With the PC parameterization program COM-SIPOS, Order No. **2SX7100-3PC02**, the actuator parameters like actuator type, torques or forces and speed, positioning time, etc. are downloaded and uploaded to the replacement electronics.)

Example: supplied type



- Higher grade neutral electronics unit (value at the 5<sup>th</sup> digit of the order number) can also be used for lower grade, e.g. an electronics unit for the 2S.78 (HiMod) can also be used for the actuator types 2S.75, 2S.73 und 2S.70!
- A neutral electronics unit can also be used as replacement for a SIPOS 5 actuator!

1) Version	Actuator types
small electronics unit „S“	2SA701., 2SA702., 2SA703., 2SA704.-C, 2SA731., 2SA732., 2SA733., 2SA734.-C, 2SA751., 2SA752., 2SA753., 2SA754.-C, 2SA781., 2SA782., 2SA783., 2SA784.-C, 2SG7...
big electronics unit „T“	2SA704.-D, 2SA704.-E, 2SA705., 2SA706., 2SA707., 2SA708., 2SA734.-D, 2SA734.-E, 2SA735., 2SA736., 2SA737., 2SA738., 2SA754.-D, 2SA755., 2SA756., 2SA757., 2SA758., 2SA784.-D, 2SA785., 2SA786., 2SA787., 2SA788..

## Definition of spare parts

### Order No.

### Description

2SY7001 -		Electronics unit		List price
0		for 2S.70 and 2S.50		
3		for 2S.73 (actuator-neutral can also be used for 2S.70)		
5		for 2S.75 and 2S.55 (actuator-neutral can also be used for 2S.73 and 2S.70)		
8		for 2S.78 and 2S.58 (actuator-neutral can also be used for 2S.75, 2S.73 and 2S.70)		
				add. cost
*)	A	Rotary actuators 2SA7	Part-turn actuators 2SG7	without
	B	1.25 – 10 rpm		
	C	2.5 – 20 rpm		
	D	5 – 40 rpm	80 – 10 sec/90°	
	E	10 – 80 rpm		
	P	20 – 160 rpm		
		actuator-neutral → requires "0" in 11 <sup>th</sup> and 12 <sup>th</sup> place of order No.		
B		1x AC 110 – 115 V		without
D		1x AC 220 – 230 V		
J		3x AC 190 – 200 V		
S		3x AC 380 – 460 V small electronics unit (motor up to 1.5 kW)		
T		big electronics unit (motor 3 or 5.5 kW)		
*)	0	Rotary actuators 2SA7	Part-turn actuators 2SG7	without
	1	actuator-neutral resp.	2SG7.0.	
	2	2SA7.1.	2SG7.1.	
	3	2SA7.2.	2SG7.2.	
	4	2SA7.3.		
	5	2SA7.4.		
	6	2SA7.5.		
	7	2SA7.6.		
	8	2SA7.7.		
		2SA7.8.		
*)	0	actuator-neutral resp. for rotary actuator 2SA7		without
	3	for small part-turn actuator 2SG7		
3		ECOTRON		without
4		PROFITRON/HiMod		
A		without add-ons for electronics unit		without
B		relay board with 5 (ECOTRON) / 8 (PROFITRON/HiMod) outputs <sup>1)</sup>		
C		PROFIBUS DP - 1-channel		
D		PROFIBUS DP - 2-channel		
E		MODBUS RTU - 1-channel		
F		MODBUS RTU - 2-channel		
G		PROFIBUS DP - 1-channel, Micromaster compatible		
H		PROFIBUS DP - 2-channel, Micromaster compatible		
J		HART (only PROFITRON/HiMod) <sup>1)</sup>		
K		HART + relay board (only PROFITRON/HiMod) <sup>1)</sup>		
A		standard software-function		without
B		Positioner	for 2SA73 and 2SA75 (only PROFITRON)	without
			for 2SA78	
C		Process controller	for 2SA75 (only PROFITRON)	
			for 2SA78	
D		travel dependent output speed adjustment	(only PROFITRON)	
E		Positioner +	for 2SA73 and 2SA75 (only PROFITRON)	
		travel dependent output speed adjustment	for 2SA78	
F		external analog output speed setpoint <sup>1)</sup>	(only PROFITRON)	
G		Positioner +	for 2SA73 and 2SA75 (only PROFITRON)	
		external analog output speed setpoint	for 2SA78	
H		Positioner with split-range functionality	for 2SA73 and 2SA75 (only PROFITRON)	
			for 2SA78	
J		travel dependent freely adjustable positioning times	(only PROFITRON)	
K		Positioner +	for 2SA73 and 2SA75 (only PROFITRON)	
		travel dependent freely adjustable positioning times	for 2SA78	
L		Process controller +	for 2SA75 (only PROFITRON)	
		travel dependent freely adjustable positioning times	for 2SA78	
4		for round plug / field bus interface		without
8		with connection hood // field bus connection <sup>2)</sup>		

1) No compatibility with SIPOS 5 → new wiring required at the customer connection and possibly for the control system!

2) Required for replacement for SIPOS 5 with direct connection, terminal box or compact plug and for version with relay board or HART interface!

\*) Differentiation only necessary if the data is not downloaded from the old unit with the PC parameterization program COM-SIPOS (Order No. 2SX7100-3PC02) and is uploaded into the replacement electronics. Actuator-neutral electronics unit: 2SY7001-..P.00-....!

## Definition of spare parts

Additional features for **electronics unit 2SY7001-...** (add. "-Z" to order No.)

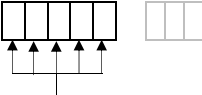
	add. features	add. cost
ECOTRON	M 1 8 Automatic motor stop period heater	
PROFITRON/HiMod	M 1 8 Automatic motor stop period heater	without
Setting/programming	V 5 0 Test to IEC 61800-2	
	Y 0 5 Torque dependent cut-off in end position:	without
	Y 1 1 Parameterization to customer requirement → specify serial number!	
	Y 3 3 Binary and analog inputs freely usable via fieldbus	without
	Y . . Project dependent parameterization: Y12, Y14, Y15, Y17, Y19, Y50, Y90	
	Y 9 9 Customer specific software-programming	on request
Customer plate	B 0 0 With freely definable text	
Language for rating plate and wiring diagram	B . . Rating-plate foreign-language/English, wiring diagram foreign-language: <b>AR</b> (B65), <b>CS</b> (B55), <b>DA</b> (B62), <b>EL</b> (B60), <b>EN</b> (B49), <b>ES</b> (B51), <b>FI</b> (B54), <b>FR</b> (B50), <b>IT</b> (B52), <b>PL</b> (B57), <b>PT</b> (B64), <b>RO</b> (B59), <b>RU</b> (B53), <b>SK</b> (B61), <b>SV</b> (B56), <b>TR</b> (B63), <b>ZH</b> (B58)	without
Other	B 9 9 Chinese project	
	C 6 3 Binary inputs OPEN/CLOSE for 120 V AC (internal power supply)	
	C 6 7 Analog position feedback externally powered with 24 V DC	on request
	C 7 0 Analog input 2 and output 2 for voltage signals 0/1...5 V, 0/2...10 V	on request
	K 5 1 Protection class IP68-8	
	P 1 5 Connection with PG-threads (only relevant for version with connection „8")	without
	P 1 8 Connection with NPT- threads (only relevant for version with connection „8")	
	P 2 5 Connection with Whitworth- threads (only relevant for version with connection „8")	
	S 6 3 Glass display window	
	T 0 6 Temperature range -30 °C to +60 °C	without
	V 6 0 AUMA front label	
special wiring diagram (only applicable for the electrical connection)	C . . project dependent wiring diagram: C15, C16, C23	
Finish paint	L 3 0 Unpainted	
	L 3 2 Double thick-film paint 150 µm (instead of 80 µm)	
	L 3 8 Very high corrosion protection, corrosivity category C5 with long protection time	
	Y 3 5 Top coat of paint for colors other than RAL7037: → specify required color!	

Σ List price = List price + Σ add. cost ..... [...]



Electronics unit

Definition of spare parts

Order No.		Description	List price
2SY7041 -		<b>Electronics housing cover<sup>1)</sup></b> (silver-gray coating (similar RAL7037), complete with turning push knob, label, O-ring and mounting parts)	
3 M C 0 1		ECOTRON small electronics unit (motor up to 1.5 kW)	
3 M C 3 4		big electronics unit (motor from 3 kW)	
4 M C 0 1		PROFITRON small electronics unit (motor up to 1.5 kW)	
4 M C 3 4		big electronics unit (motor from 3 kW)	
8 M C 0 1		HiMod small electronics unit (motor up to 1.5 kW)	
8 M C 3 4		big electronics unit (motor from 3 kW)	

Additional features (add. "-Z" to order No.)

	add. features		add. cost
Display	S 6 3	Glass display window	
Label	V 6 0	AUMA front label	without
Finish paint	L 3 2	Double thick-film paint 150 µm (instead of 80 µm)	
	L 3 8	Very high corrosion protection, corrosivity category C5 with long protection time	
	Y 3 5	Top coat of paint for colors other than RAL7037: → specify required color!	

Σ List price = List price + Σ add. cost ..... [...]

<b>Mechanical operation lock of the drive controller (turning push knob), lockable</b>	Order No.: 2SX7302-0BS00	
<b>Padlock</b>	Order No.: 2SX7302-0VS00	



Electronics housing cover

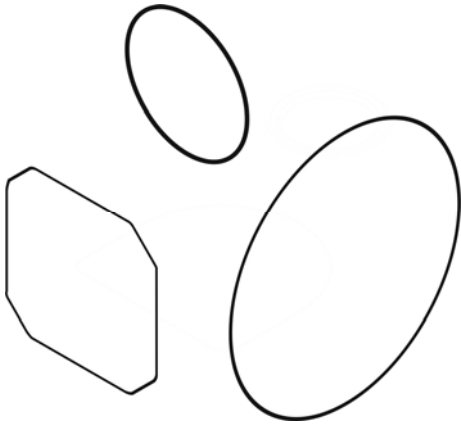
1)	Version	Actuator types
	small electronics unit „S“	2SA701., 2SA702., 2SA703., 2SA704.-C, 2SA731., 2SA732., 2SA733., 2SA734.-C, 2SA751., 2SA752., 2SA753., 2SA754.-C, 2SA781., 2SA782., 2SA783., 2SA784.-C, 2SG7...
	big electronics unit „T“	2SA704.-D, 2SA704.-E, 2SA705., 2SA706., 2SA707., 2SA708., 2SA734.-D, 2SA734.-E, 2SA735., 2SA736., 2SA737., 2SA738., 2SA754.-D, 2SA755., 2SA756., 2SA757., 2SA758..., 2SA784.-D, 2SA785., 2SA786., 2SA787., 2SA788..

Definition of spare parts

Mechanical

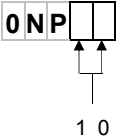
Order No.		Description	List price
2SY7218 - <div><div></div><div>DS10</div></div> <div><div>↑</div><div>0</div></div>	<div><div>add. features</div><div><div></div><div></div><div></div></div></div>	<div><div><b>Gasket set for commissioning</b></div><div>(O-rings)</div><div><div>Recommended gasket set for commissioning for 2S.7- actuators</div><div>(O-rings for electronics housing cover, signaling gear hood and connection cover/hood)</div></div></div>	
	Additional features (add. "-Z" to order No.)		
Ambient condition	<div><div>add. features</div><div>T 0 9</div></div>	Temperature range -20 °C to +90 °C for gear unit	<div><div>add. cost</div><div>on request</div></div>

Σ List price = List price + Σ add. cost ..... [...]



Gasket set

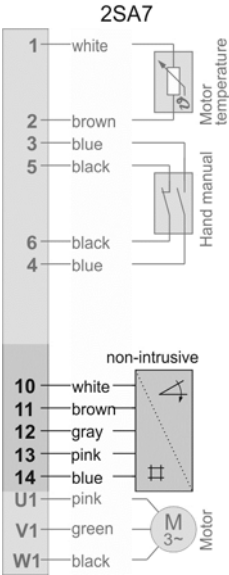
Definition of spare parts

Order No.	Description	List price
2SY7219 - 0NP 	non-intrusive position encoder <sup>1)</sup> (with mounting parts)	[...]



non-intrusive position encoder

Assignment overview - Part 036  
Plug element for gear unit connection



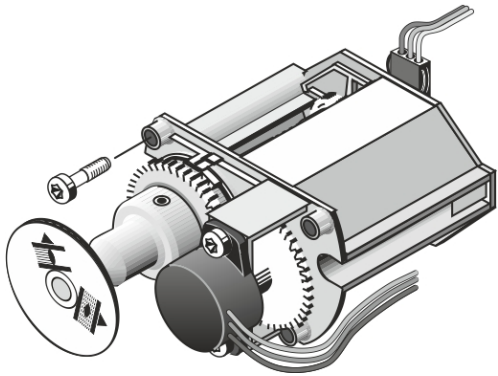
1) The pressing-out tool **2SX7501-0CD02** is needed to release the contacts pins in part 036!



## Definition of spare parts

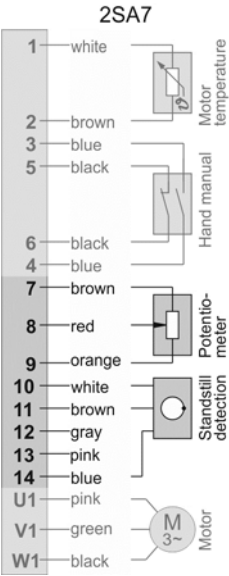
Order No.		Description	List price
2SY7220 -	<div> <div>MG</div> <div>add. features</div> </div>	<b>Signaling gear<sup>1) 2)</sup></b> (complete mounted and adjusted, with potentiometer, standstill detection and wiring harness)	
0 0 2		for 2SA70 without mechanical position indicator	
0 0 3		for 2SA70 with mechanical position indicator	
5 0 2		for 2SA73 and 2SA75 without mechanical position indicator	
5 0 3		for 2SA73 and 2SA75 with mechanical position indicator	
Additional features (add. "-Z" to order No.)			add. cost
> 4020 revs/stroke	P 3 4	Signaling gear for > 4020 revs/stroke	

Σ List price = List price + Σ add. cost ..... [..]



Signaling gear

### Assignment overview - Part 036 Plug element for gear unit connection



1) The pressing-out tool 2SX7501-0CD02 is needed to release the contacts pins in part 036!  
 2) Secure screws with Loctite 222!

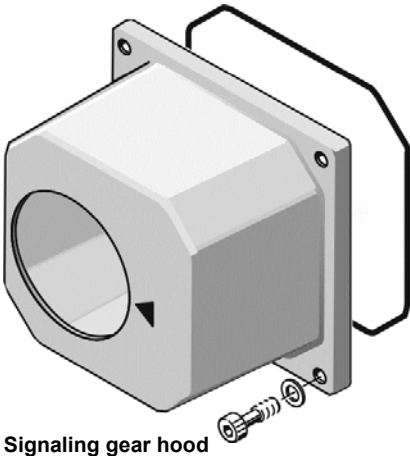
Definition of spare parts

Order No.	Description		List price
2SY7225 - <div><div><div></div><div></div><div></div><div></div></div><div>00</div></div> <div><div>add. features</div><div><div></div><div></div><div></div></div></div>	<b>Signaling gear hood</b> (complete with O-ring and mounting parts)		
<div><div>0 M D</div><div>0 M N</div></div>	for 2SA70, 2SA73 and 2SA75	for signaling gear for „non-intrusive“	

Additional features (add. "-Z" to order No.)

	add. features		add. cost
Ambient condition	T 0 9	Temperature range -20 °C to +90 °C for gear unit	<a href="#">on request</a>
Finish paint	L 3 4	Painting signaling gear hood	
	Y3 5	Top coat of paint for colors other than RAL7037: → specify required color!	

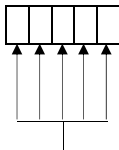
Σ List price = List price + Σ add. cost ..... [...]



## Definition of spare parts

## Order No.

2SY7250 -



add. features

Hand manual<sup>1)</sup>

(silver-gray coating (similar RAL7037), depending on the version complete with support plate, compression spring, connecting cable, O-ring, centrifugal lock for gear size 4, handle and mounting parts)

for 2SA70, 2SA73  
and 2SA75Hand manual gear size 1<sup>2)</sup>

with crank 60 mm

Hand manual gear size 3<sup>2)</sup>

with crank 90 mm

for 2SA78

Hand manual gear size 1<sup>2)</sup>

with hand wheel

Hand manual gear size 3<sup>2)</sup>

for 2SA7

Hand manual gear size 4<sup>2)</sup>

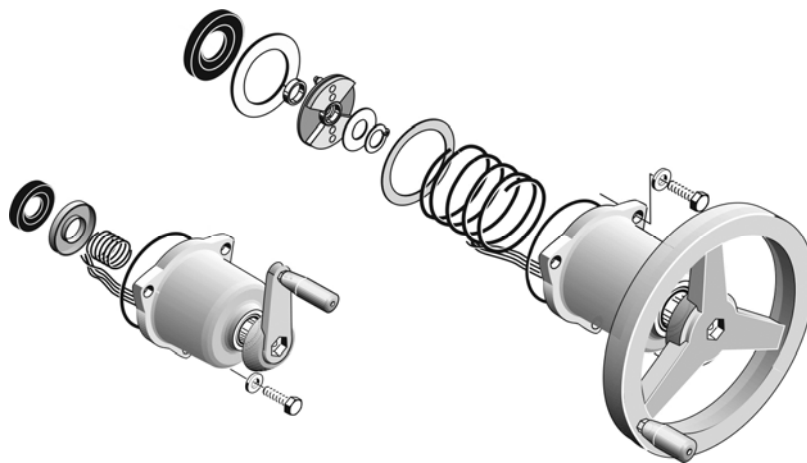
for 2SG7

Hand wheel, complete

Additional features (add. "-Z" to order No.)

	add. features		add. cost
Chain wheel drive	V 0 0	for gear size 1 <sup>2)</sup> gear size 3 <sup>2)</sup> 2SG7	
Hand wheel	V 2 5	Hand wheel instead of hand crank	
Direction of rotation	V 2 7	Direction of rotation not indicated on the actuator	
	V 2 8	Direction of rotation reference at the hand wheel/crank in counter-clockwise direction	
Ambient condition	K 5 1	Protection class IP68-8 gear size 1 <sup>2)</sup> gear size 3 <sup>2)</sup> gear size 4 <sup>2)</sup>	
	T 0 9	Temperature range -20 °C to +90 °C for gear unit	on request
Finish paint	L 3 2	Double thick-film paint 150 µm (instead of 80 µm)	
	L 3 8	Very high corrosion protection, corrosivity category C5 with long protection time	
	Y 3 5	Top coat of paint for colors other than RAL7037: → specify required color!	

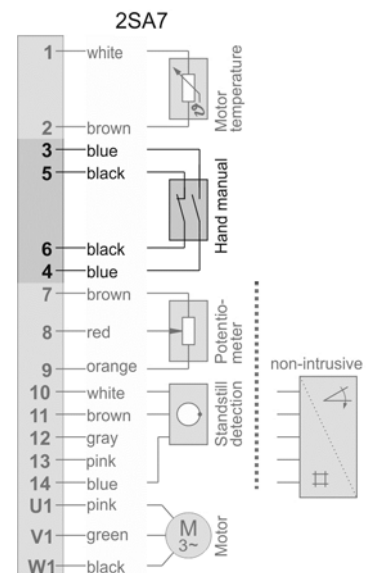
Σ List price = List price + Σ add. cost ..... [...]



Hand manual

1) The pressing-out tool **2SX7501-0CD02** is needed to release the contacts pins in part 036!

2) Rotary actuators	ON-OFF	Inching/ Positioning	Modulating	Continuous modulating
<b>Gear size 1</b>	2SA701.- 2SA702.-	2SA731.- 2SA732.-	2SA751.- 2SA752.-	2SA781.- 2SA782.-
<b>Gear size 3</b>	2SA703.- 2SA704.-	2SA733.- 2SA734.-	2SA753.- 2SA754.-	2SA783.- 2SA784.-
<b>Gear size 4</b>	2SA705.- 2SA706.- 2SA707.- 2SA708.-	2SA735.- 2SA736.- 2SA737.- 2SA738.-	2SA755.- 2SA756.- 2SA757.- 2SA758.-	2SA785.- 2SA786.- 2SA787.- 2SA788.-

Assignment overview - Part 036  
Plug element for gear unit connection

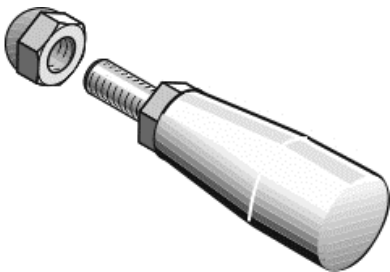
Definition of spare parts

Order No.	Description		List price
2SY7252 -	<div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div> <div>add. features</div>	Handle <sup>1)</sup>	
1 G M 0 6	for 2SA70, 2SA73 and 2SA75	Handle gear size 1 <sup>2)</sup> and 3 <sup>2)</sup> for hand crank	
1 G M 1 1	for 2SA7	Handle gear size 4 <sup>2)</sup> for hand wheel	
6 G M 0 0	for 2SG7	Handle for hand wheel	

Additional features (add. "-Z" to order No.)

	add. features		add. cost
Hand wheel	V 2 5	for hand wheel instead of hand crank	

Σ List price = List price + Σ add. cost ..... [...]



Handle

2) Secure screw with Loctite 243!

2) Rotary actuators	ON-OFF	Inching/ Positioning	Modulating	Continuous modulating
Gear size 1	2SA701.- 2SA702.-	2SA731.- 2SA732.-	2SA751.- 2SA752.-	2SA781.- 2SA782.-
Gear size 3	2SA703.- 2SA704.-	2SA733.- 2SA734.-	2SA753.- 2SA754.-	2SA783.- 2SA784.-
Gear size 4	2SA705.- 2SA706.- 2SA707.- 2SA708.-	2SA735.- 2SA736.- 2SA737.- 2SA738.-	2SA755.- 2SA756.- 2SA757.- 2SA758.-	2SA785.- 2SA786.- 2SA787.- 2SA788.-

## Accessories

Order No.	Description	List price
<b>2SX7100 - 3 P C 0 2</b>	<b>COM-SIPOS</b> PC parameterization program (for commissioning, programming, diagnosis, maintenance and visualization)	[...]

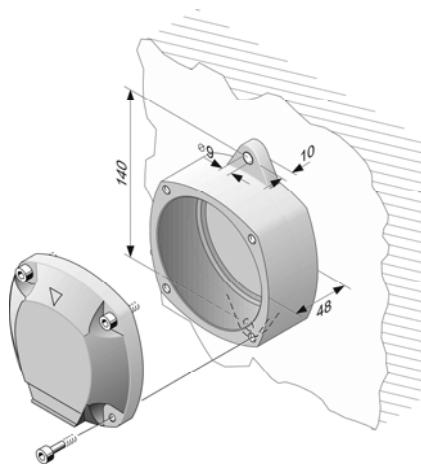


USB stick COM-SIPOS

**Scope of supply**

- PC parameterization program
- User manual DE and EN/US (on USB stick)
- USB cables type A/A and A/B for connection to the USB port of the laptop

Order No.	Description	List price
<b>2SX7303 - 0 P S 0 1</b>	<b>Parking socket</b> (for round plug connection, silver-gray coating (similar RAL7037))	[...]



Parking socket

**Scope of supply**

- Parking socket
- Cover with screws

Accessories

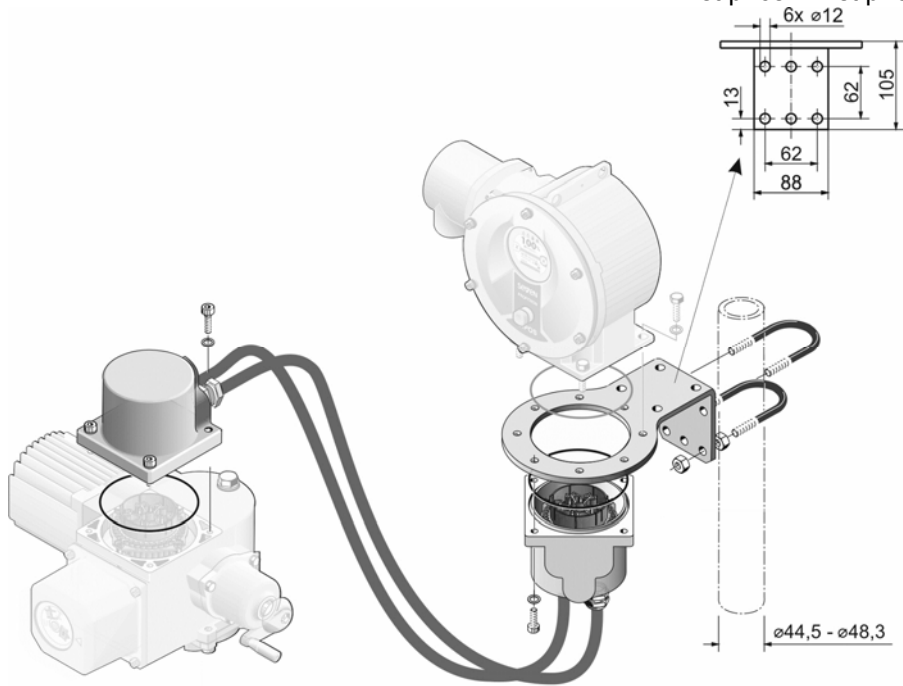
Order No.	Description			List price
2SX7300 -	<div><div>GA</div><div></div><div></div><div></div></div>	<b>Installation kit for separate mounting</b> (anthracite anodized, complete with mounting bracket, tubular steel stirrup and, depending on version, with O-rings, mounting parts, caps or heavy-gauge threaded joint and all parts needed for electrical connection such as covers and plugs etc.)		
		Add. version of the original delivery	Length of connecting cable <sup>1)</sup>	Version of connection
		S41 + R70	3 m	(a)
		+ R71	5 m	
		+ R72	10 m	
		S47 + R70	3 m	(b)
		+ R71	5 m	
		+ R72	10 m	

- (a) **Fixed cable connection**  
Connecting cable with connection plug hoods (electronics unit and gear unit) completely assembled. Cable ends ready for plugging in.
- (b) **Fixed cable connection for variable lengths**  
Connecting cable with connection plug hood (electronics unit) and with free ends towards the gear unit, completely assembled. The cable ends to the connection plug hood on the gear unit side must be connected locally after individual cutting to length and in accordance with the included connection diagram. Cable ends ready for plugging in.

Additional features (add. "-Z" to order No.)

	add. features		add. cost
Ambient condition	K 5 1	Protection class IP68-8	
	T 0 9	Temperature range -20 °C to +90 °C for gear unit	on request
Finish paint	L 3 2	Silver-gray coating (similar RAL7037)	
	L 3 8	Very high corrosion protection, corrosivity category C5 with long protection time	

$\Sigma$  List price = List price +  $\Sigma$  add. cost ..... [...]

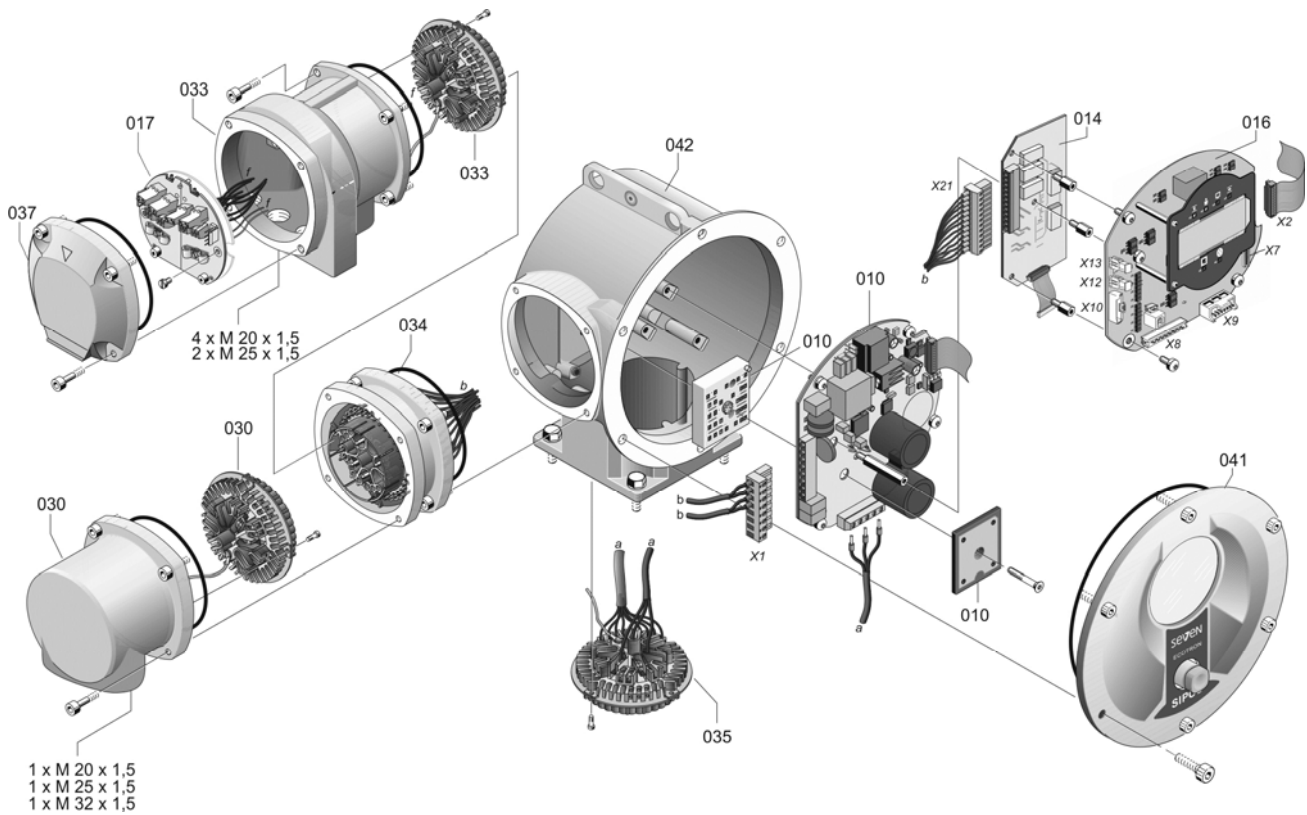


Separate mounting, version shown 2SX7300-4GA..

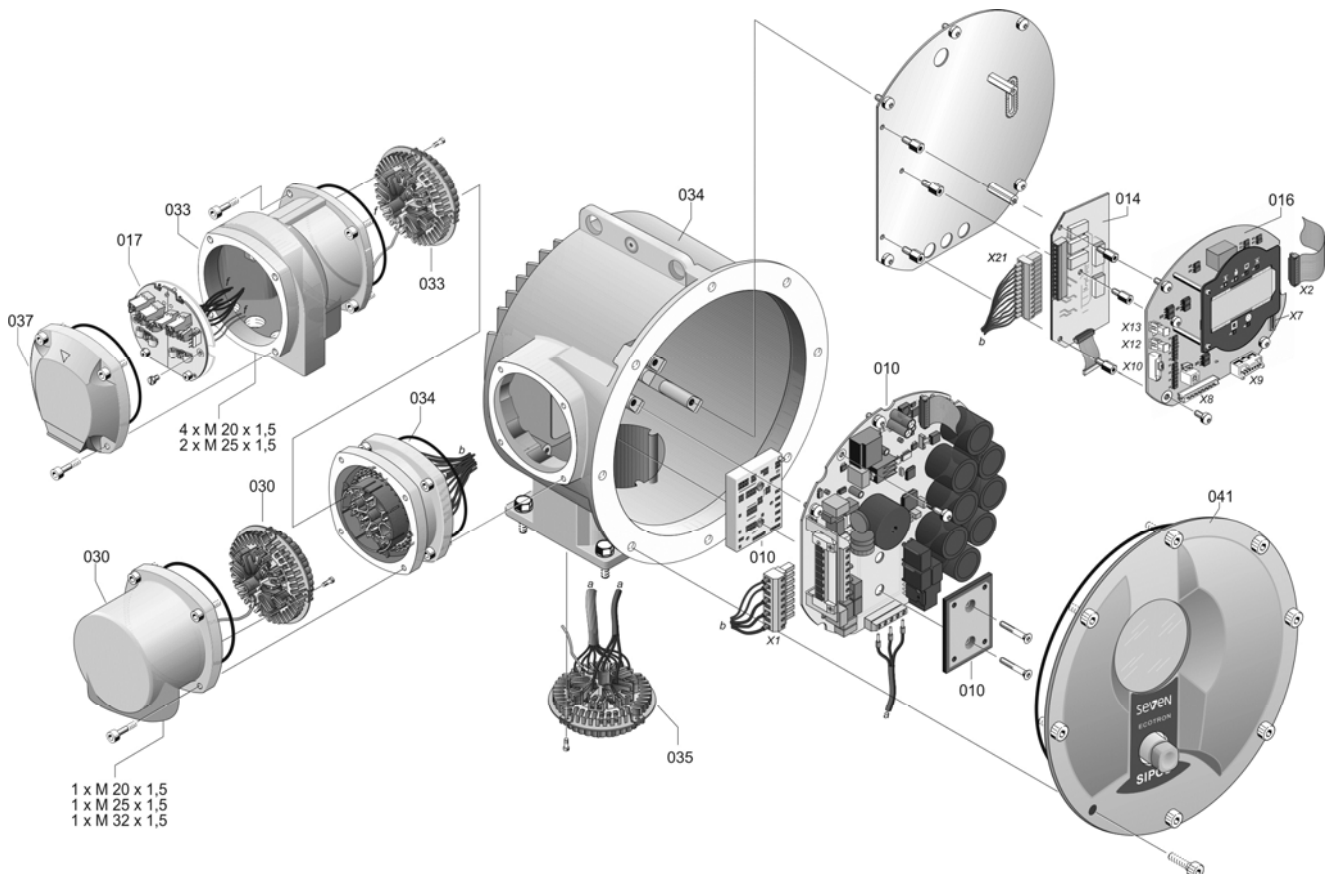
1) Other versions with cable lengths up to 150 m on request!

**Definition of spare parts**

**Electronics unit ECOTRON (motor up to 1.5 kW)**

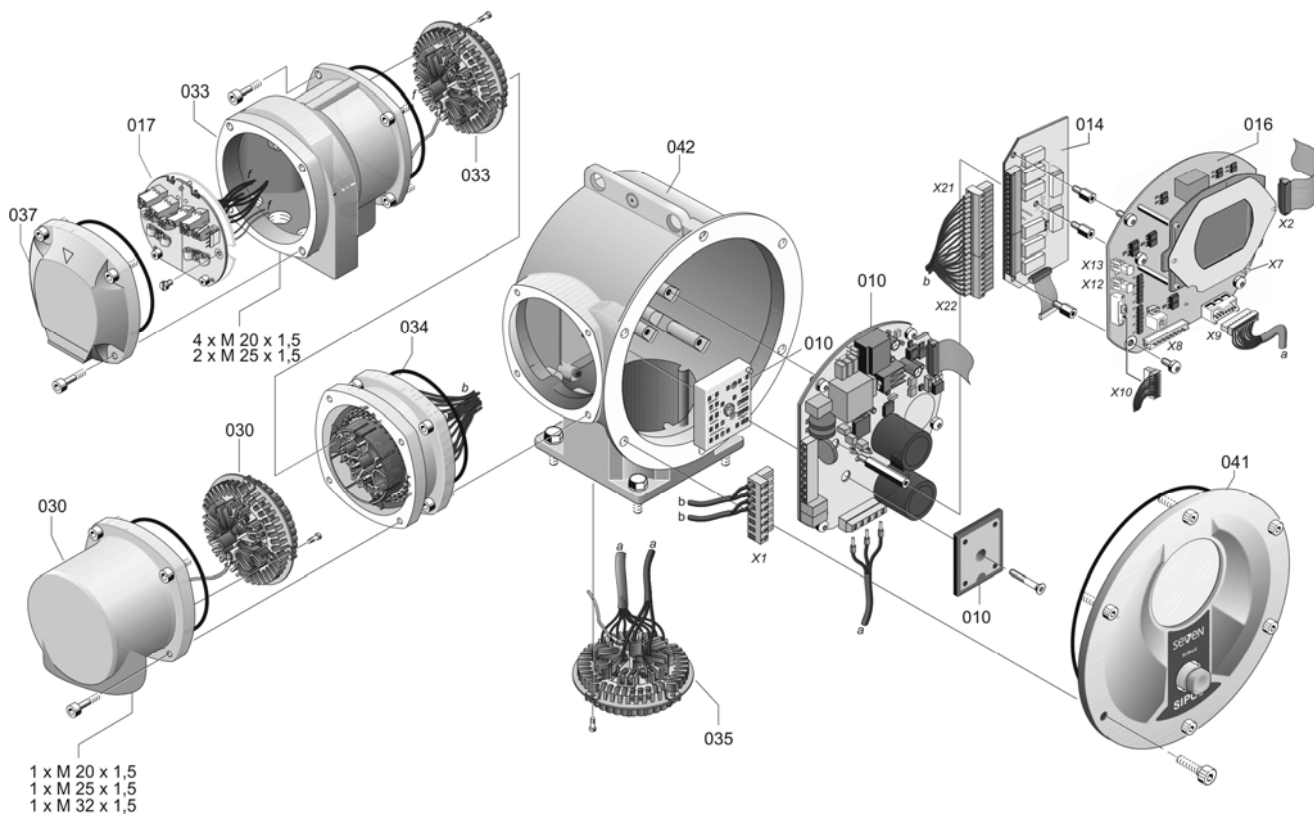


**Electronics unit ECOTRON (motor from 3 kW)**

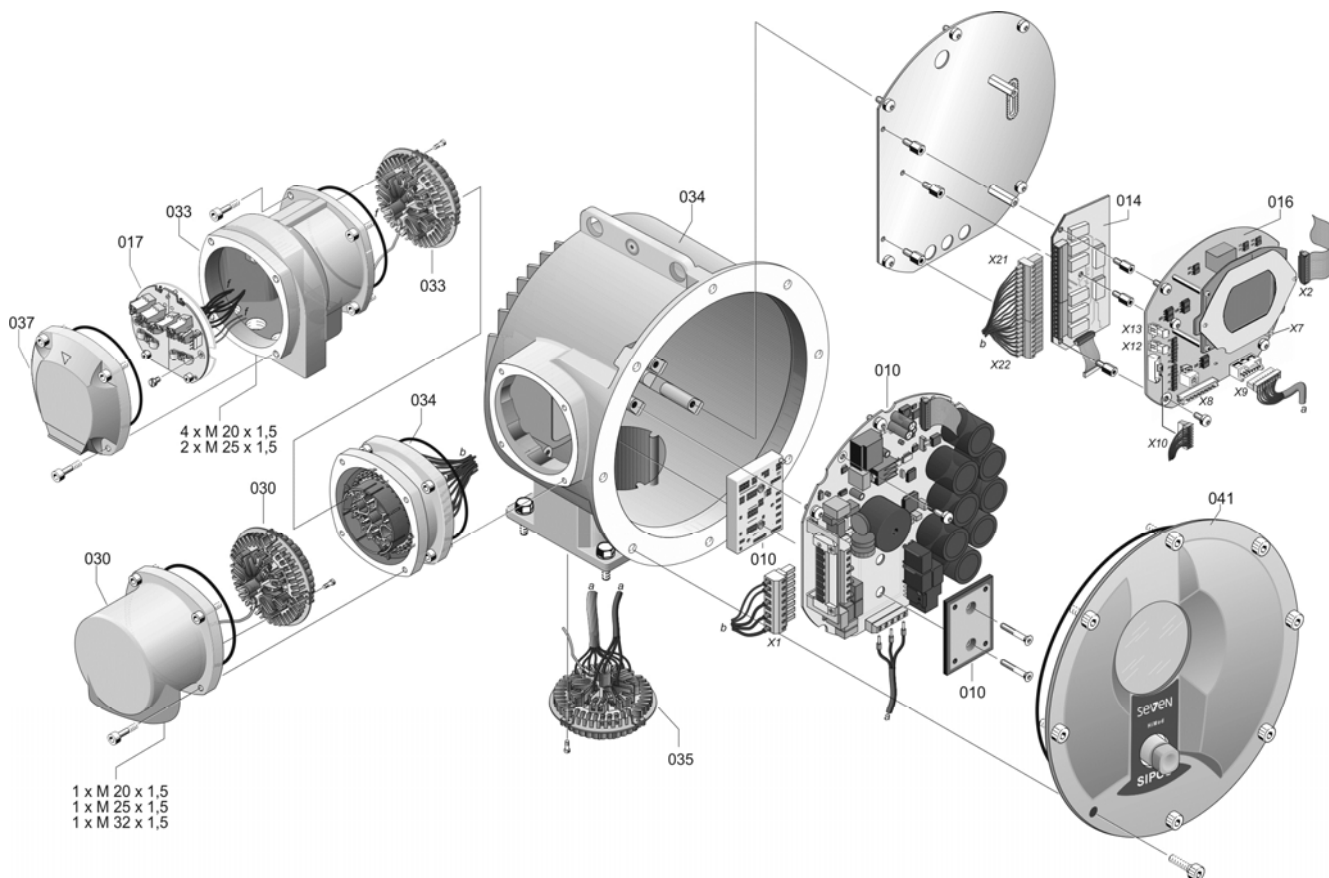


**Definition of spare parts**

**Electronics unit PROFITRON/HiMod (motor up to 1.5 kW)**



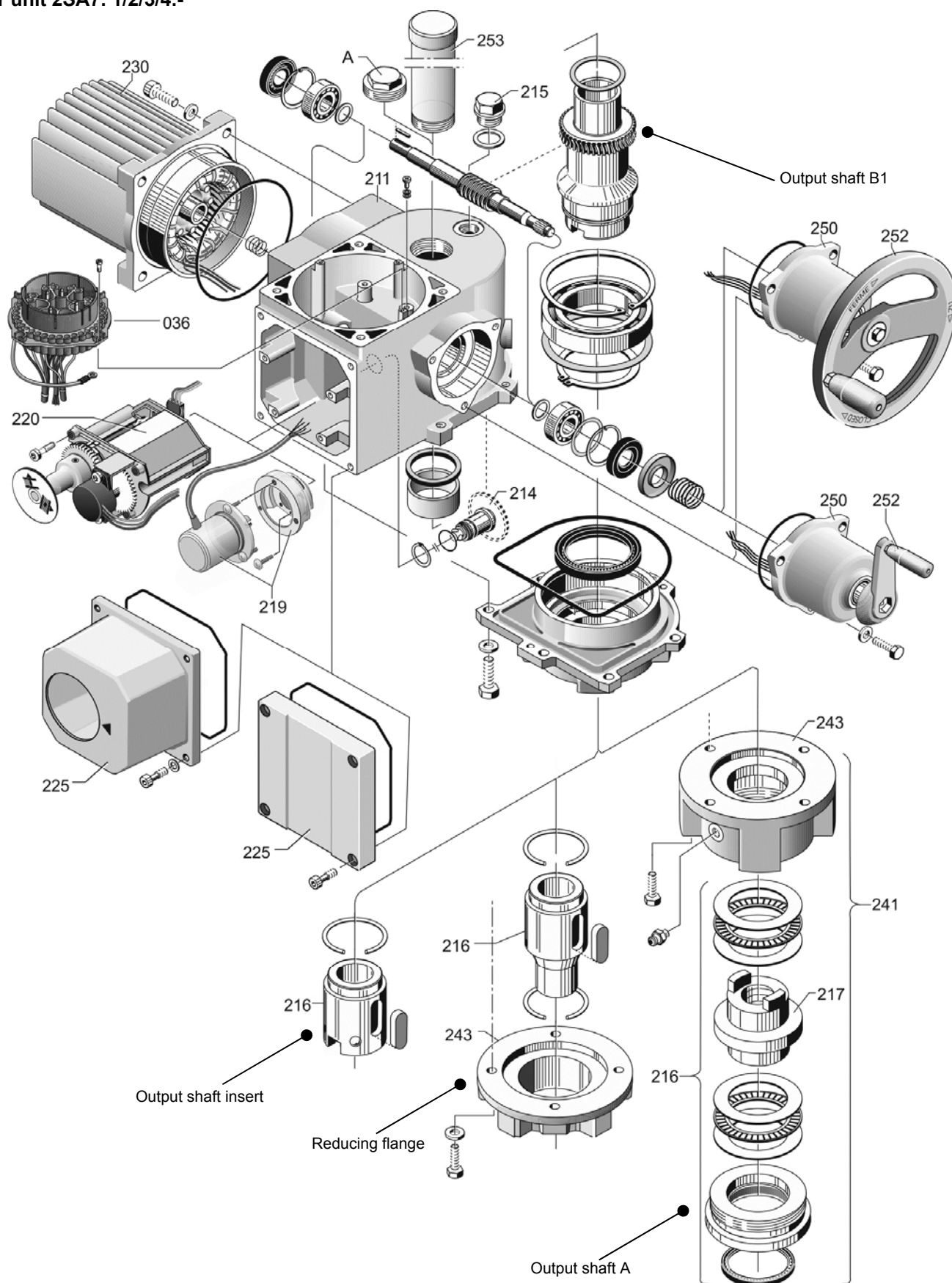
**Electronics unit PROFITRON/HiMod (motor from 3 kW)**





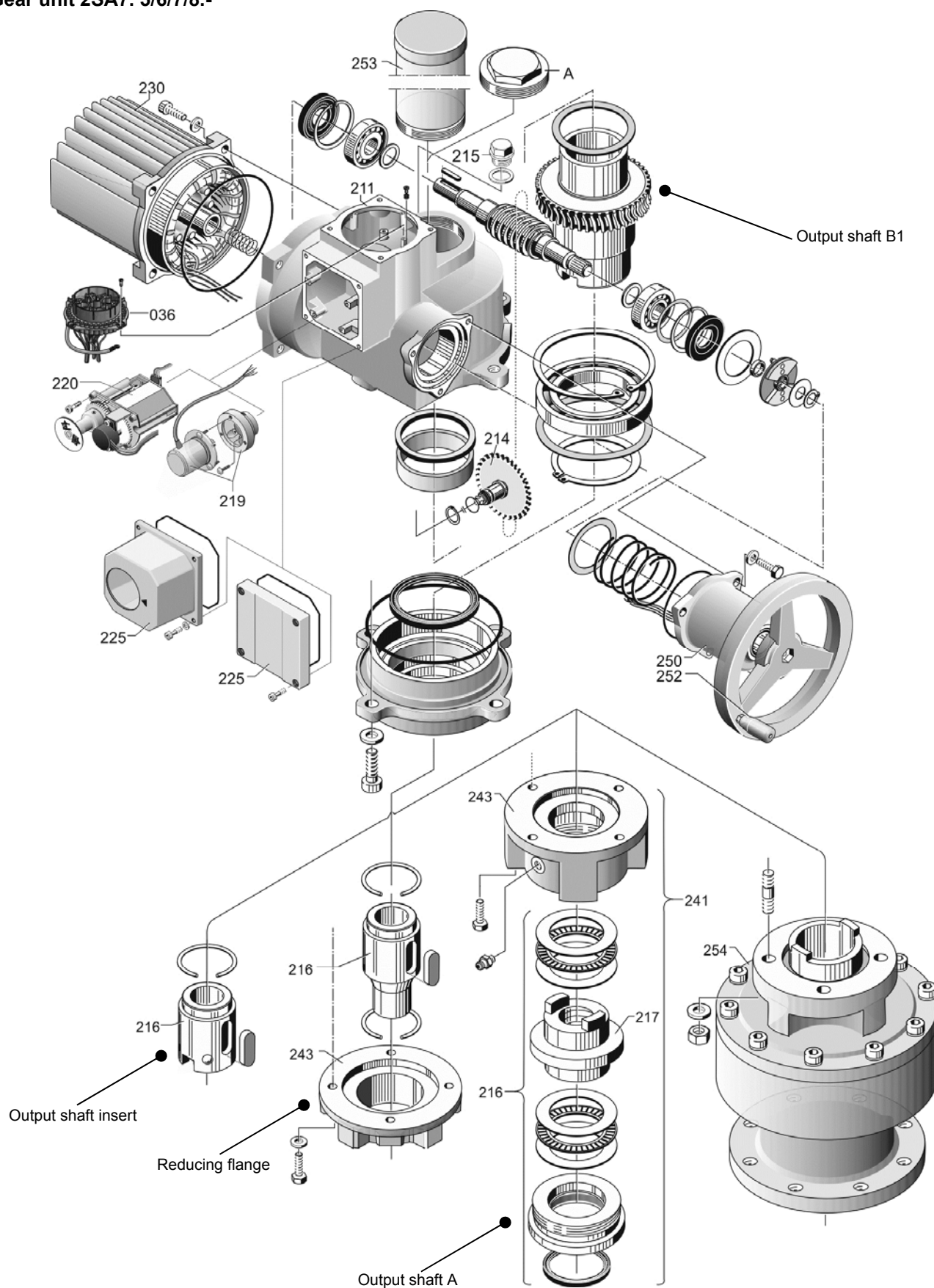
### Definition of spare parts

## Gear unit 2SA7. 1/2/3/4.-



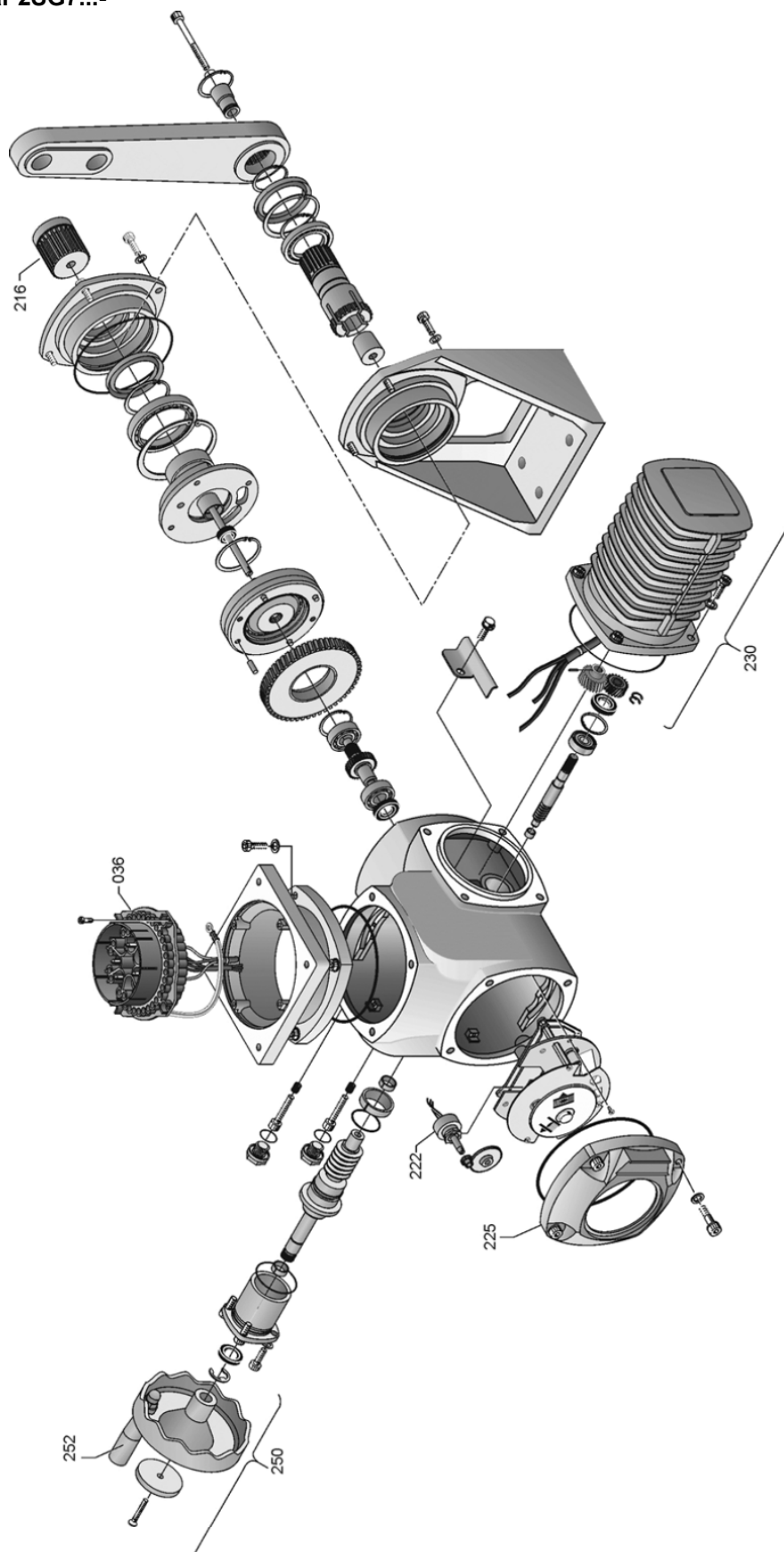
### Definition of spare parts

### **Gear unit 2SA7. 5/6/7/8.-**



**Definition of spare parts**

small part-turn gear 2SG7...-



## Definition of spare parts